



PCT

## RAW SEQUENCE LISTING

DATE: 08/26/2004

PATENT APPLICATION: US/10/505,376

TIME: 16:33:01

Input Set : A:\8201\_028-304.ST25.txt

Output Set: N:\CRF4\08262004\J505376.raw

5 <110> APPLICANT: Biogen, Inc.  
 7 Kalled, Susan  
 9 Reid, Hugh  
 13 <120> TITLE OF INVENTION: Use of BCMA as an Immunoregulatory Agent  
 17 <130> FILE REFERENCE: 08201.0028-00304  
 C--> 21 <140> CURRENT APPLICATION NUMBER: US/10/505,376  
 C--> 21 <141> CURRENT FILING DATE: 2004-08-20  
 21 <150> PRIOR APPLICATION NUMBER: 60/358,427  
 23 <151> PRIOR FILING DATE: 2002-02-21  
 27 <160> NUMBER OF SEQ ID NOS: 5  
 31 <170> SOFTWARE: PatentIn version 3.1  
 35 <210> SEQ ID NO: 1  
 37 <211> LENGTH: 184  
 39 <212> TYPE: PRT  
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 52 20 25 30  
 55 Pro Pro Leu Thr Cys Gln Arg Tyr Cys Asn Ala Ser Val Thr Asn Ser  
 56 35 40 45  
 59 Val Lys Gly Thr Asn Ala Ile Leu Trp Thr Cys Leu Gly Leu Ser Leu  
 60 50 55 60  
 63 Ile Ile Ser Leu Ala Val Phe Val Leu Met Phe Leu Leu Arg Lys Ile  
 64 65 70 75 80  
 67 Ser Ser Glu Pro Leu Lys Asp Glu Phe Lys Asn Thr Gly Ser Gly Leu  
 68 85 90 95  
 71 Leu Gly Met Ala Asn Ile Asp Leu Glu Lys Ser Arg Thr Gly Asp Glu  
 72 100 105 110  
 75 Ile Ile Leu Pro Arg Gly Leu Glu Tyr Thr Val Glu Glu Cys Thr Cys  
 76 115 120 125  
 79 Glu Asp Cys Ile Lys Ser Lys Pro Lys Val Asp Ser Asp His Cys Phe  
 80 130 135 140  
 83 Pro Leu Pro Ala Met Glu Glu Gly Ala Thr Ile Leu Val Thr Thr Lys  
 84 145 150 155 160  
 87 Thr Asn Asp Tyr Cys Lys Ser Leu Pro Ala Ala Leu Ser Ala Thr Glu  
 88 165 170 175  
 91 Ile Glu Lys Ser Ile Ser Ala Arg  
 92 180  
 95 <210> SEQ ID NO: 2  
 97 <211> LENGTH: 555  
 99 <212> TYPE: DNA



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110 tgtaatgcaa gtgtgaccaa ttcagtgaag ggaacgaatg cgattctctg gacctgtttg      180
112 ggactgagct taataatttc tttggcagtt ttcgtgctaa tgtttttgct aaggaagata      240
114 agctctgaac cattaagga cgagtttaaa aacacaggat caggtctcct gggcatggct      300
116 aacattgacc tggaaaagag caggactggg gatgaaatta tttctccgag aggcctcgag      360
118 tacacggtgg aagaatgcac ctgtgaagac tgcacaaaga gcaaaccgaa ggctcgactct      420
120 gaccattgct ttccactccc agctatggag gaaggcgcaa ccattcttgt caccacgaaa      480
122 acgaatgact attgcaagag cctgccagct gctttgagtg ctacggagat agagaaatca      540
124 atttctgcta ggttaa                                     555
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129 <211> LENGTH: 302
131 <212> TYPE: PRT
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144 20 25 30
147 Gln Asn Glu Tyr Phe Asp Ser Leu Leu His Ala Cys Ile Pro Cys Gln
148 35 40 45
151 Leu Arg Cys Ser Ser Asn Thr Pro Pro Leu Thr Cys Gln Arg Tyr Cys
152 50 55 60
155 Asn Ala Ser Val Thr Asn Ser Val Lys Gly Val Asp Lys Thr His Thr
156 65 70 75 80
159 Cys Pro Pro Cys Pro Ala Pro Glu Leu Leu Gly Gly Pro Ser Val Phe
160 85 90 95
163 Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro
164 100 105 110
167 Glu Val Thr Cys Val Val Val Asp Val Ser His Glu Asp Pro Glu Val
168 115 120 125
171 Lys Phe Asn Trp Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr
172 130 135 140
175 Lys Pro Arg Glu Glu Gln Tyr Asn Ser Thr Tyr Arg Val Val Ser Val
176 145 150 155 160
179 Leu Thr Val Leu His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys
180 165 170 175
183 Lys Val Ser Asn Lys Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser
184 180 185 190
187 Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro
188 195 200 205
191 Ser Arg Asp Glu Leu Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val
192 210 215 220
195 Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly
196 225 230 235 240
199 Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp
200 245 250 255

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203 Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp
204           260           265           270
207 Gln Gln Gly Asn Val Phe Ser Cys Ser Val Met His Glu Ala Leu His
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212           290           295           300
215 <210> SEQ ID NO: 4
217 <211> LENGTH: 909
219 <212> TYPE: DNA
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228 gacgtcacga tgttgcagat ggctgggcag tgctcccaaa atgaatattt tgacagtttg      120
230 ttgcatgctt gcataccttg tcaacttcga tgttcttcta atactcctcc tctaacaatgt      180
232 cagcgttatt gtaatgcaag tgtgaccaat tcagtgaaag gagtcgacaa aactcacaca      240
234 tgcccaccgt gcccagcacc tgaactcctg gggggaccgt cagtcttctt cttcccccca      300
236 aaacccaagg acacctcat gatctcccgg acccctgagg tcacatgcgt ggtgggtggac      360
238 gtgagccacg aagaccctga ggtcaagttc aactgggtacg tggacggcgt ggaggtgcat      420
240 aatgccaaaga caaagccgcg ggaggagcag tacaacagca cgtaccgtgt ggtcagcgtc      480
242 ctccaccgtc tgcaccagga ctggctgaat ggcaaggagt acaagtgcaa ggtctccaac      540
244 aaagccctcc cagcccccac cgagaaaacc atctccaaag ccaaagggca gccccgagaa      600
246 ccacaggtgt acacctgcc cccatcccgg gatgagctga ccaagaacca ggtcagcctg      660
248 acctgcctgg tcaaaggctt ctatcccagc gacatcgccg tggagtggga gagcaatggg      720
250 cagccggaga acaactacaa gaccacgcct cccgtgttgg actccgacgg ctctctcttc      780
252 ctctacagca agctcaccgt ggacaagagc aggtggcagc aggggaacgt cttctcatgc      840
254 tccgtgatgc atgaggctct gcacaaccac tacacgcaga agagcctctc cctgtctccc      900
256 gggaaatga
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261 <211> LENGTH: 21
263 <212> TYPE: PRT
265 <213> ORGANISM: Mouse
269 <400> SEQUENCE: 5
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275 Tyr Arg Asn Gly Lys
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VERIFICATION SUMMARY

PATENT APPLICATION: US/10/505,376

DATE: 08/26/2004

TIME: 16:33:02

Input Set : A:\8201\_028-304.ST25.txt

Output Set: N:\CRF4\08262004\J505376.raw

L:21 M:270 C: Current Application Number differs, Replaced Current Application No  
L:21 M:271 C: Current Filing Date differs, Replaced Current Filing Date